

ABSTRACT

A curtain blind take-up drive mechanism with non-slip effect having a freehand turn operation. The non-slip effect is configured to prevent slats of the blind from slipping down, and further includes coupling a
5 power end of a drive shaft to a reel. The drive shaft connects to a worm gear via a transmission amplifier. The worm gear is actuated through reciprocally engaging with a worm driven via a flexible shaft coupling and through operation of a slat tilt rod. Reciprocal teeth meshing and teeth surface pressure between the worm gear and the worm achieves
10 a high slip-rate, and thereby inhibits reverse transmission, thus accomplishing a reverse direction stoppage effect, and further producing a large frictional force and forming a surface-pressure slip effect thereof. The transmission amplifier allows the drive shaft to achieve a high rotational speed, thereby facilitating freehand operation
15 for taking-up and letting-down of the slats.